

Oceanic Steamship Company.

SIERRA-ALAMEDA SCHEDULE

ARRIVE HONOLULU.	LEAVE HONOLULU.
S. S. SIERRA.....SEPT. 20	S. S. SIERRA.....SEPT. 25
S. S. ALAMEDA.....OCT. 11	S. S. ALAMEDA.....OCT. 16
S. S. ALAMEDA.....NOV. 1	S. S. ALAMEDA.....NOV. 6
S. S. ALAMEDA.....NOV. 22	S. S. ALAMEDA.....NOV. 27
S. S. ALAMEDA.....DEC. 13	S. S. ALAMEDA.....DEC. 18
S. S. ALAMEDA.....JAN. 3	S. S. ALAMEDA.....JAN. 8

In connection with the sailing of the above steamers, the Agents are prepared to issue to intending passengers coupon through tickets by any railroad from San Francisco to all points in the United States, and from New York by steamship line to all European Ports.

FOR FURTHER PARTICULARS APPLY TO

W. G. Irwin & Co.

(LIMITED).

General Agents Oceanic S. S. Company.

Canadian-Australian Royal Mail

STEAMSHIP COMPANY

Steamers of the above line running in connection with the CANADIAN-PACIFIC RAILWAY COMPANY between Vancouver, B. C., and Sydney, N. S. W., and calling at Victoria, B. C., Honolulu and Brisbane, Q.

DUE AT HONOLULU ON OR ABOUT THE DATES BELOW STATED, VIZ:

FOR AUSTRALIA.	FOR VANCOUVER.
MOANA.....OCTOBER 19	MIOWERA.....OCTOBER 16
MIOWERA.....NOVEMBER 16	AORANGI.....NOVEMBER 13
AORANGI.....DECEMBER 14	MOANA.....DECEMBER 11
MOANA.....JANUARY 11	MIOWERA.....JANUARY 8

CALLING AT SUVA, FIJI, ON BOTH UP AND DOWN VOYAGES.

THEO. H. DAVIES & CO., Ltd., Gen'l Agts.

American Hawaiian Steamship Company

FROM NEW YORK TO HONOLULU.

Weekly Sailings via Tehuantepec.

Freight received at all times at the Company's wharf, 41st Street, South Brooklyn.

FROM HONOLULU TO SAN FRANCISCO DIRECT.

S. S. NEVADAN...TO SAIL OCT. 16

FROM SAN FRANCISCO TO HONOLULU DIRECT.

S. S. COLUMBIA...TO SAIL OCT. 5

S. S. NEBRASKAN...TO SAIL OCT. 14

Freight received at Company's wharf Greenwich street.

For further information apply to
H. HACKFELD & CO., LTD.,
Agents, Honolulu.
C. F. MORSE,
General Freight Agent.

MATSON NAVIGATION COMPANY,

The S. S. "HILONIAN" of this line, carrying passengers and freight, will run in a direct service between this port and San Francisco, sailing and arriving on or about the following dates:

Leave S. F.	Arrive Honolulu.	Leave Honolulu
SEPT. 26TH.	OCT. 3RD.	OCT. 8TH.
OCT. 24TH.	OCT. 31ST.	NOV. 6TH.
NOV. 21ST.	NOV. 28TH.	DEC. 3RD.

Passenger Rates to San Francisco: First Cabin, \$60.00.
Round Trip, First Class, \$110.00.

For Further Particulars Apply To

Castle & Cooke, Limited, Agents

Union-Pacific Transfer Co. Ltd

Baggage Shipping
Storage Wood
Packing Coal

PHONE
58

FURNITURE AND PIANO MOVING.

The Law Says

No preservatives shall be used in the food. This means that your cream shall be free from antifermentine. The only means of keeping cream fresh is by cold storage. We have it and we are handling the product of the Dairy-men's Association. That means fresh cream, sweet cream, 30 cents a half pint, 55 cents a pint.

Metropolitan Meat Co., Ltd
Telephone 45

GENT'S FURNISHING GOODS

We cater for the gents trade and in our store you will find the latest styles in hats, ties, shirts, collars, etc.
JAPANESE GOODS such as silk pajamas, kimonos, cushion covers, always on hand.

K. ISOSHIMA
King Street near Bethel. Honolulu.

WHY MISS THE FUN?

Possibly, Mr. Shaw is right, and we should check the speed at which we are going, but by so doing we'd miss all the fascination that comes of exceeding the limit.—Indianapolis News.

SHIPPING INTELLIGENCE

(For additional and later shipping see pages 5 or 8.)

TIDES, SUN AND MOON

New moon Oct. 6th, 11:49 p. m.

Date	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	Sun Sets	Moon Rises
Sept. 30	10:57	1:5	2:14	3:45	5:48	6:01		
Oct. 1	11:55	1:5	0:00	7:30	4:20	5:51	5:47	0:51
2	12:06	1:5	0:53	7:53	5:38	5:52	5:40	1:48
3	1:16	1:5	1:31	8:00	6:41	5:52	5:45	2:34
4	1:52	1:5	2:05	8:32	7:32	5:52	5:44	3:27
5	2:31	1:5	2:37	8:55	8:19	5:53	5:43	4:21
6	3:08	1:4	3:08	9:23	9:00	5:53	5:42	5:14

Times of the tide are taken from the U. S. Coast and Geodetic Survey tables. The tides at Kahului and Hilo occur out one hour earlier than at Honolulu. Hawaiian standard time is 10 hours 30 minutes slower than Greenwich time, being that of the meridian of 157 degrees 30 minutes. The time whistle blows at 1:30 p. m., which is the same as Greenwich, 0 hours, 9 minutes. The Sun and Moon are for local time for the whole group.

U. S. DEPARTMENT OF AGRICULTURE—WEATHER BUREAU.

The following data, covering a period of 32 years, have been compiled from the Weather Bureau records at Honolulu, T. H. They are issued to show the conditions that have prevailed, during the month in question, for the above period of years, but must not be construed as a forecast of the weather conditions for the coming month.

Month, September, for 32 years.

TEMPERATURE. (1890-1906).
Mean or normal temperature, 78 deg.

The warmest month was that of 1891, with an average of 80 deg.

The coldest month was that of 1905, with an average of 77 deg.

The highest temperature was 88 deg., on 9 and 16, 1890; 29, 181; 14, 1892; 10, 1896; 12, 1900.

The lowest temperature was 65 deg., on 15, 1890.

PRECIPITATION. (1877-1894, 1904-05).
Average for the month, 1.27 inches.

Average number of days with .01 of an inch or more, 14.

The greatest monthly precipitation was 2.95 inches in 1888.

The least monthly precipitation was 0.36 inches in 1883.

The greatest amount of precipitation recorded in any 24 consecutive hours was 1.27 inches on the 8th, 1888.

RELATIVE HUMIDITY.
Average: 9 a. m., 65 pct.; 8 a. m., 68 pct.; average, 9 p. m., 72 pct. (1893-1903); 8 p. m., 72 pct. (1904-06).

CLOUDS AND DWEATHER (1904-06).
Average number of clear days, 14; partly cloudy days, 14; cloudy days, 2.

WIND.
The prevailing winds are from the NE. (1875-1894, 1904-06).

The average hourly velocity of the wind is 7.9 miles (1904-06).

The highest velocity of the wind was 28 miles from the NE. on the 18th, 1905 (1904-06).

Station: Honolulu, T. H.
Date of issue: August 31, 1907.

* 9 o'clock averages from records of Territorial Meteorologist, 8 o'clock averages from Weather Bureau records.

WM. B. STOCKMAN,
Section Director, Weather Bureau.

Shipping in Port
(Army and Navy).

U. S. S. Iroquois, Carter, Johnson Island, Aug. 30.

Ger. cruiser Condor, Ahlert, Samoa, Sept. 22.

(Steamships.)
M. N. S. S. Hilonian, Johnson, San Francisco, Oct. 3.

Sailing Vessels.
Am. sc. Mary E. Foster, Johnson, Tacoma, Aug. 30.

Am. bk. S. C. Allen, Willer, Eureka, Sept. 8.

Br. sp. Cetera Chief, Jones, Hamburg, Sept. 19.

The Mails
OUTGOING.

For Vancouver, per Miowera, Oct. 16.

For San Francisco, per Manchuria Oct. 5.

For San Francisco, per Hilonian, Oct. 8.

For Orient, per America Maru, Oct. 9.

For San Francisco, per Nippon Maru Oct. 12.

INCOMING.
From San Francisco per America Maru, Oct. 9.

From San Francisco, per Alameda, Oct. 12.

From Orient, per Manchuria Oct. 5.

From Colonies, per Miowera, Oct. 16.

U. S. A. TRANSPORTS.
Thomas sailed for Manila from Honolulu, Sept. 17.

Logan due from Nagasaki, left Sept. 23.

Buford at Manila, Sherman at San Francisco.

Dix at Manila, Sheridan repairing at Mare Island.

Warren at Manila, Crook left Nagasaki Sept. 8.

ARRIVING.
Thursday, October 3.

M. N. S. S. Hilonian, Johnson, from San Francisco, 4:30 p. m.

Friday, October 4.

Am. sc. C. A. Thayer, 28 days from Gray's Harbor, 10 a. m.

DEPARTING.
Thursday, October 3.

Am. bk. S. C. Allen, for San Francisco, 1:15 p. m.

S. S. Mikahala, Gregory, for Kauai ports, 5 p. m.

Friday, October 4.

S. S. Claudine, Bennett, for Hawaii and Maui ports, 5 p. m.

PASSENGERS ARRIVED.
Per M. N. S. S. Hilonian, October 3.

—from San Francisco. George Geramios, G. L. Greed and wife, Mrs. J. Dugan, R. E. Cowley, Miss A. D. Mason, Alfred Gregg, Mrs. Marston Campbell and son, R. Mansbridge, W. F. Johnson.

PASSENGERS DEPARTED.
Per S. S. Mikahala, Oct. 3, for Kauai: E. Omsted, A. E. Ewart, Mrs. J. D. Clark, T. C. Davies, C. E. King, W. C. Peacock, H. Jaeger and wife, Mrs. C. M. Cooke.

Booked.
Per S. S. Claudine, Oct. 4, for Hawaii and Maui ports: F. S. Dodge, Mrs. F. P. Baldwin, Mrs. Baker, E. G. Ferreira, Dr. Raymond, W. Crawford, Mrs. A. Alexander, D. B. Murdoch, C. W. Baldwin, Miss H. G. Forbes, Dr. Alexander, E. D. Baldwin, Mr. and Mrs. Klitridge, Mrs. E. A. Weaver, J. W. Peterson, G. H. Mayer.

Per S. S. Hilonian, Oct. 4, for San Francisco: Mrs. W. E. Wall and 2 children, G. Dietz, Miss Minifred Allen, J. F. Doyle, Mr. and Mrs. Scovell, Fred Carter, J. W. Donald, Mrs. G. Swingslea and child, Joe Taylor, Mrs. J. W. Yarnoley, Mrs. Sunning, C. A. Wilson, Mrs. Julia K. Type, H. Crane, Mrs. M. Williams, C. W. Geiser, Mrs. M. E. Powers and child.

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A SCIENTIFIC PARIS NATURE STORY

FRENCH PROFESSOR'S SURPRISING EXPERIMENTS WITH STARFISH AND SEA URCHINS.

PARIS, September 24.—Remarkable experiments in the chemical development of life have been recently perfected by Prof. De Lage of Sorbonne.

In his laboratory in Brittany the professor placed the unfertilized eggs of the sea urchins and starfish in sea water, adding solution of sugar with a few drops of ammonia and tannin.

In about an hour segmentation, which is the first sign